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(71) Applicant (for all designated States except US): UNIVERSITÄTSKLINIKUM MÜNSTER [DE/DE]; Domagkstrasse 5, 48149 Münster (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): PREHM, Peter [DE/DE]; Rudolf-Harbig-Strasse 5, 48301 Nottuln (DE).

(74) Agent: VOSSIUS & PARTNER; Siebertstrasse 4, 81675 Munich (DE).

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(54) Title: MEANS AND METHODS FOR TREATING A DISEASE WHICH IS ASSOCIATED WITH AN EXCESS TRANSPORT OF HYALURONAN ACROSS A LIPID BILAYER

(57) **Abstract:** The present invention relates to the use of at least one inhibitor of at least one ABCtransporter capable of transporting hyaluronan across a lipid bilayer, for the preparation of a pharmaceutical composition for the treatment of a disease which is associated with an excess transport of hyaluronan across a lipid bilayer, e.g. arthritis. Furthermore, the present invention relates to a method for screening a compound which is suitable for the treatment of a disease which is associated with an excess transport of hyaluronan across a lipid bilayer, e.g. arthritis. The present invention also relates to a method for screening a compound which reduces the transport of hyaluronan mediated by (an) ABC-transporter(s). Furthermore, the present invention relates to a method for identifying a subject at risk for a disease which is associated with an excess transport of hyaluronan across a lipid bilayer, e.g. arthritis as well as to a method of screening for a compound which is suitable for the treatment of a disease which is associated with an excess transport of hyaluronan across a lipid bilayer, e.g. arthritis in a subject. In addition, the present invention relates to a method of preventing, ameliorating and/or treating the symptoms of a disease which is associated with an excess transport of hyaluronan across a lipid bilayer, e.g. arthritis in a subject.